

UTAH STATE IMPLEMENTATION PLAN  
SECTION VIII  
PREVENTION OF SIGNIFICANT DETERIORATION

Adopted by the Utah Air Quality Board  
December 18, 1992

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Prevention of Significant Deterioration (PSD) applies to all areas of the State except those designated as nonattainment under Section 107 of the federal Clean Air Act (CAA) and identified in Section IX of this plan. PSD applies to all pollutants regulated under the federal CAA. If an area is designated nonattainment for a pollutant, PSD may still apply for those pollutants for which the area has not been designated nonattainment.

On October 17, 1988, PSD increments for nitrogen dioxide were promulgated. These increments apply to all areas within the state designated as attainment or unclassifiable for nitrogen dioxide under Section 107 of the federal CAA. The minor source baseline date for NO<sub>x</sub> is April 21, 1988. An investigation of all sources permitted since this date has been initiated to determine if a violation of the maximum allowable increase for NO<sub>x</sub> has occurred or what portion of that increment remains. Increment consumption analyses will include mobile and area sources.

If a violation of the NO<sub>x</sub> maximum allowable increase is found then sources will be required to either meet more stringent emission limitations or acquire sufficient emissions offset that will provide a positive net air quality benefit and insure that the increment is no longer violated.

Utah regulations require all new and modified sources in PSD areas to use best available control technology which would yield the highest air cleaning efficiencies and the lowest pollution discharges in an effort to save the air resource for future use and protect national treasures such as our National Parks, through planning designed to best benefit the State. Through the Clean Air Act, as it was amended in 1977, the Congress has imposed strict increments of allowable pollutant increase which apply nationwide.

The National Parks in the State have been designated as Class I areas by the Congress. All other areas of the State have been designated as Class II and procedures have been established for redesignation of these non-mandatory Class II areas as determined appropriate. The maximum allowable increases in concentrations in these areas are those increments specified in R307-405. Calculations of increases to baseline concentrations are made each time a new source is proposed or an existing source is proposed for modification in any given area to insure the increments will not be exceeded. As a result of the new sources or modification, all major sources or major modifications will undergo a complete PSD review including an air quality analysis to insure all applicable requirements are met and emissions are minimized. Minor sources will undergo a similar analysis; however, a detailed air quality related analysis will not be required of the source, but emissions for the source will be

counted against increment consumption.

An initial emissions inventory tracking system for increment consumption has been developed for existing major sources approved since the minor source baseline dates have been established and will be maintained for all pollutants having increments.